Info-Hams Digest   Tue, 1 Feb 94   Volume 94 : Issue 102

Today's Topics:
                              a
        Amateur Radio: Changes to Elmers Resource Directory
         Amateur Radio: Elmers List Info and Administrivia
                    Code tapes, looking for.
               More info: the DSP nobody mentioned
                        test (6 msgs)

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 31 Jan 1994 22:43:50 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!agate!
iat.holonet.net!takeone!brian.seed@network.ucsd.edu
Subject: a
To: info-hams@ucsd.edu

z

```
+++
OK

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Date: Tue, 1 Feb 1994 12:02:18 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sol.ctr.columbia.edu!
news.unomaha.edu!news@network.ucsd.edu
Subject: Amateur Radio: Changes to Elmers Resource Directory
To: info-hams@ucsd.edu

Posted-By: auto-faq 3.2.1.2
Archive-name: radio/ham-radio/elmers/diff

(Note:  This diff file is taken from the list body only.)

/usr/bin/diff -c (last month's) (this month's)

*** /u3/pschleck/faq/elmers/list.body.old Sat Jan  1 06:00:58 1994
--- /u3/pschleck/faq/elmers/list.body.new Tue Feb  1 06:00:03 1994
***************
*** 1,4 ****
! Amateur Radio Elmers Resource Directory (as of 01/01/94)
  +++++++++++++++++++++++++++++++++++++++++++++++++++++++

  David Andrews ZL2SX
--- 1,4 ----
! Amateur Radio Elmers Resource Directory (as of 02/01/94)
  +++++++++++++++++++++++++++++++++++++++++++++++++++++++

  David Andrews ZL2SX
***************
*** 372,377 ****
--- 372,401 ----

  +++++++++++++++++++++++++++++++++++++++++++++++++++++++

+ -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
+ Jeff DePolo  WN3A            Twisted Pair: (215) 337-7383H  387-3059W
+ depolo@eniac.seas.upenn.edu   RF: 443.800+ MHz   442.700+ MHz   24.150 GHz
+ University of Pennsylvania
```

```
+
+ Chief Technical Officer, University of Pennsylvania ARC
+ Repeater Tech, Near-Far ARC
+ Repeater Tech, Holmesburg ARC
+ VE Team Leader, University of Pennsylvania ARC VE Team
+
+ Affiliations: ARRL, UPenn ARC, Holmesburg ARC, NEAR-FAR ARC,
+               Mt. Airy VHF Society (Packrats),
+
+ Main interests: VHF/UHF weak signal, design and construction, antenna design,
+                 VHF/UHF propagation, HF DX, VHF/UHF contesting, repeaters
+
+ Volunteer Examiner
+ VHF/UHF Weak Signal
+ Repeater design
+ General Homebrewing
+ Antenna design/theory
+
+ ++++++++++++++++++++++++++++++++++++++++++++++++++++
+
  Betsey Doane, K1EIC

  Doane@CCSUA.CTStateU.Edu
**************
*** 385,391 ****

  ++++++++++++++++++++++++++++++++++++++++++++++++++++

! David Dodell   WB7TPY

  Internet: david@stat.com                FAX: +1 (602) 451-6135
  Bitnet: ATW1H@ASUACAD                   FidoNet=> 1:114/15
--- 409,415 ----

  ++++++++++++++++++++++++++++++++++++++++++++++++++++

! David Dodell  WB7TPY, AFA6GB

  Internet: david@stat.com                FAX: +1 (602) 451-6135
  Bitnet: ATW1H@ASUACAD                   FidoNet=> 1:114/15
**************
*** 395,408 ****

  Owner of the Land-Mobile-Radio Mailing List

! To Add Yourself To This List, Please Send Electronic Mail To:

                  listserv@stat.com
```

```
! And Include The Command:

!                  subscribe land-mobile-radio


  +++++++++++++++++++++++++++++++++++++++++++++++++++++

  Thomas Edwards  N3HAU
--- 419,451 ----

  Owner of the Land-Mobile-Radio Mailing List

! The purpose of this list is to allow discussion about commercial
! land-mobile radio equipment, its use and maintenance.

+ Owner of the Military Affiliate Radio Service (MARS) Members
+ Mailing List.
+
+ The purpose of this list is to allow discussion about MARS (Military
+ Affiliated Radio Service) activities.  The list is open to all branches
+ of MARS.
+
+ To subscribe to or unsubscribe from either of the above lists, please
+ send electronic mail to:
+
                  listserv@stat.com

! and include the command:

!                  subscribe list-name

+ or
+
+                  unsubscribe list-name
+
+ as the first line of your message, where list-name is either
+ land-mobile-radio or mars-list.  An acknowledgement/welcome message
+ should follow very shortly.
+
  +++++++++++++++++++++++++++++++++++++++++++++++++++++

  Thomas Edwards  N3HAU
**************
*** 563,568 ****
--- 606,635 ----


  +++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
+ Andy B. Fyodorov  RW3AH, WL7AP
+
+ rw3ah@emercom.msk.su
+
+ PACKET: RW3AH @ R3ARES.#MOS.RUS.EU (temporarily down)
+ IP: 44.178.1.7 or rw3ah@gw.ra3apw.ampr.org
+
+ PO Box 899 Moscow
+ Zip-127018  Russia
+
+ Licensed since 1975
+ Experience in Emergency communications, Russian ARES Chief
+ Coordinator (since 1987) of Russian ARES Organization matters and networks
+ Owner of R3ARES BBS
+ General HF, Contesting, Net Controlling operations
+ Data communications, networks (TCP/IP, AX25)
+ computers (IBM PC, home made)
+ homebrewing electronics
+ antennas (particularly HF).
+ Proficiency in CW (Morse code)
+ (also former Ten-Tec dealer in ex-USSR)
+
+ ++++++++++++++++++++++++++++++++++++++++++++++++++++
+
  Jim Graham

  #include <std_disclaimer.h>                            73 DE N5IAL (/4)
***************
*** 909,927 ****
  Ax.25      = n7mrp@n7mrp.az.usa.na
  Internet   = dan@aznet.stat.com

- Owner of the F6FBB Packet Bulletin Board System Mailing List.
-
- The purpose of this list is to provide both sysops and networkers
- with tricks/tips/help as well as software updates for the F6FBB
- packet bulletin board system.
-
- To subscribe, send E-mail to listserv@stat.com, and in the body of
- the message, write:
-
- subscribe f6fbb-list
-
- An acknowledgement/welcome message should follow very shortly.
-
  Owner of the PBBS Bulletin Forwarding Mailing List

  The purpose of this list is to provide Sysops and Networkers a server in
```

```
--- 976,981 ----
***************
*** 930,945 ****
  information relevant to all Amateur Related PBBS software packages available
  today.

! To Add Yourself To This List, Please Send Electronic Mail To:

                   listserv@stat.com

! And Include The Command:

!                    subscribe bull-fwd

! As The First Line of Your Message.

  +++++++++++++++++++++++++++++++++++++++++++++++++++++++

  John Monson  WB0PLW, AAA9EC
--- 984,1012 ----
  information relevant to all Amateur Related PBBS software packages available
  today.

! Owner of the F6FBB Packet Bulletin Board System Mailing List.

+ The purpose of this list is to provide both sysops and networkers
+ with tricks/tips/help as well as software updates for the F6FBB
+ packet bulletin board system.
+
+ To subscribe to or unsubscribe from either of the above lists, please
+ send electronic mail to:
+
                   listserv@stat.com

! and include the command:

!                    subscribe list-name

! or

+                    unsubscribe list-name
+
+ as the first line of your message, where list-name is either bull-fwd
+ or mars-list.  An acknowledgement/welcome message should follow very
+ shortly.
+
  +++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
   John Monson  WB0PLW, AAA9EC
***************
*** 1110,1115 ****
--- 1177,1196 ----

   +++++++++++++++++++++++++++++++++++++++++++++++++++++

+ James J. Richards
+
+ richardsjj@oa.frc.com
+
+ First-Class FCC Radiotelephone License
+
+ 25 years of Public Safety Communications and Computer-
+ Aided Dispatch
+
+ Scanners - Digital Comm - Freqs - Business Band - Public Safety
+ MDT's - Fax - RTTY
+
+ +++++++++++++++++++++++++++++++++++++++++++++++++++++
+
                                         _____  _____   The
   Scott Rosenfeld                                 \ /   Long   Original
   ham@wam.umd.edu  Amateur Radio NF3I  Burtonsville, MD   |   Live    $5.00
***************
*** 1522,1532 ****
   insights into non-packet digital modes, PLEASE contact me through
   that address.  You might get added to the list...  No, that's not
   a threat. ;)
-
- Maintainer of On-Line Repeater Directory
-
- For more information about this service, send E-mail to
- repeaters@wattres.sj.ca.us with the word "help" in the message body.

   +++++++++++++++++++++++++++++++++++++++++++++++++++++

--- 1603,1608 ----

--
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)
elmers-request@unomaha.edu (Elmers List administrivia)

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Date: Tue, 1 Feb 1994 12:00:23 GMT
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This administrivia file and the companion Amateur Radio Elmers Resource
Directory are intended for non-commercial distribution via Usenet. Any
other uses, please E-mail for permission.

A Brief Historical Overview:
++++++++++++++++++++++++++++

If there is any one constant in the changing state of the communications
art, it is that "Hams" (Amateur Radio Operators) have always been on
the forefront of it. Rumors abound where the term "Ham" came from.
Some of the more amusing are described at the end of this article.

Regardless of origin of the name, a "Ham" is universally recognizable as
one who experiments in radio and communications.

Whether it be constructing a low-power CW radio with vacuum tubes, or
designing TCP/IP packet networks, such experimentation has historically
spilled over into the mainstream such as was the case with Edwin
Armstrong, who developed the regenerative oscillator and FM radio, or
General Curtis LeMay (W6EZV) who was instrumental in making Single-
Sideband the communications standard for the Strategic Air Command
(1947-1992, now reorganized into a joint command called USSTRATCOM) and
eventually the U.S. Air Force. Although packet-switching techniques
originated from DARPA (Defense Advanced Research Projects Agency) and
the ARPANet, no one can deny the tremendous influence that amateurs
have had in demonstrating the viability of TCP/IP and AX.25
communications via radio links. The efforts of AMSAT (the Amateur
Satellite Corporation), including the development of many ham satellites
and the low-orbiting Microsats (communications satellites no bigger than
a breadbox that use store-and forward packet techniques), have certainly
advanced the state-of-the-art in communications, one of the defined
purposes of the Amateur Radio Service, as recognized by international
treaty.

Since in many cases hams are writing "the book", there is often no
"book" or other established reference for a beginner to refer to.
Traditionally, information has been passed on from ham to ham via word-
of-mouth. Like many of the traditional crafts, a variation of the

Master-Apprentice system has emerged, the Elmer-Novice relationship.
Called "Elmers" because they are usually older and wiser, having the
benefit of many years in the hobby, including several failed projects,
and an electric shock or two, they have traditionally been the mainstay
of amateur radio, and the source of many new hams, particularly those
interested in working on emerging technologies.

Even more importantly, Elmers provided an outlet for the impatient
newcomer who wanted "to know everything, and right away." Faced with
such a request, a good Elmer will smile and proceed to lead the novice
through some project or operating experience. Several hours, days, or
weeks later, the novice would have his answers, but would have earned
them. Even better, the sense of accomplishment would boost the novice's
confidence and nudge him or her down the road to being a model,
experienced ham operator.

Many present hams feel that such an experience is missing today. In
today's hustle-bustle world, the response to such natural curiosity and
desire to learn is, more often than not, "I'm too busy" or "RTFM." As a
result, the quality of new hams declines and the knowledge and operating
habits they develop in their first formative months and years leave much
to be desired. And the very same hams who claim that they "can't
understand the new generation" also, in almost the same breath, lament
about the "decline of amateur radio."

What is an Elmer today?
+++++++++++++++++++++++

An Elmer today is of any age, male or female, who has some expertise and
is willing to share it with beginners. Elmers don't even need to be
licensed amateurs, just people with knowledge in some area of
electronics or communications technology.

What is a Usenet Elmer?
+++++++++++++++++++++++

With the ever-widening scope of the Internet, and the amateur radio
newsgroups on Usenet, the potential for Elmers to share their
knowledge to a wide audience has never been greater. To that end, I
have started to maintain a list of such Elmers. Volunteers need only
send me their name, E-mail address, and area of expertise. I have set
up an administrivia mailbox for this purpose (elmers-request@
unomaha.edu, the default Reply-To: of this message).

Those desiring a more extensive list, or who need more specific
assistance, are encouraged to contact Rosalie White, WA1STO, Educational
Services Manager at the American Radio Relay League, 225 Main St.,
Newington, CT 06111 or via electronic mail addressed to

rwhite@arrl.org.

How may I obtain the latest copy of the Elmers List?
+++

There are currently 7 ways of obtaining the Elmers List. Any site
at least reachable by Internet E-mail can use options 3 or 4:

1. Usenet News: The latest copy of the list can be found in the
companion posting to this message, "Amateur Radio: Elmers Resource
Directory." Since the list is cross-posted to rec.radio.amateur.misc,
rec.radio.info, rec.answers, and news.answers on the 1st of each month,
with an expiration date 6 weeks into the future, there should always be
a copy available at most news sites. Check your newsreader
documentation for information about reading previously-read articles.

2. Anonymous FTP: If your site is directly connected to the Internet,
you may retrieve the latest copy via File Transfer Protocol (FTP) from
the following sites:

ftp.cs.buffalo.edu /pub/ham-radio/elmers*
rtfm.mit.edu   /pub/usenet/news.answers/radio/ham-radio/elmers/*

3. Mailing-List: Since the list is cross-posted to rec.radio.info, the
latest copy may be obtained from the mailing-list gateway for that
newsgroup (along with many other informational articles about radio)
when it is published each month. To subscribe, send E-mail to:

listserv@ucsd.edu

and in the BODY (not the Subject) of the message, write:

subscribe radio-info

The server may not be able to determine your return address. In that
case write:

subscribe radio-info (your E-mail address)

You should get an acknowledgement very shortly.

4. Mail-Server: If you don't want to read through the entire gateway
of rec.radio.info, or want a copy of the list right away, send E-mail
to:

mail-server@rtfm.mit.edu

and in the BODY (not the Subject) of the message, write:

```
send usenet/news.answers/radio/ham-radio/elmers/admin
send usenet/news.answers/radio/ham-radio/elmers/index
send usenet/news.answers/radio/ham-radio/elmers/list
send usenet/news.answers/radio/ham-radio/elmers/diff
```

and the latest copy of the list should be sent to you E-mail within 24
hours (the mail-server uses batch priority to reduce system demand).

The last three services are experimental. I'm not terribly familiar
with them, and cannot offer much technical support regarding their use.
(I'd appreciate feedback on whether or not you find them useful,
though.)

5. Internet Gopher: The latest copy of the list should be available
from the following Gopher sites, all at standard port 70:

```
    cc1.kuleuven.ac.be
    jupiter.sun.csd.unb.ca
    gopher.univ-lyon1.fr
    ftp.win.tue.nl
    gopher.win.tue.nl
```

see also comp.infosystems.gopher

6. World-Wide Web (WWW): The latest copy of the list should be available
from the following WWW site:

URL: http://www.cis.ohio-state.edu:80/hypertext/faq/usenet

under pages:

```
radio/ham-radio/elmers/admin
radio/ham-radio/elmers/index
radio/ham-radio/elmers/list
radio/ham-radio/elmers/diff
```

see also comp.infosystems.www

7. Wide-Area Information Service (WAIS): The latest copy of the list
should be available from the WAIS server at rtfm.mit.edu (standard port
210) in database "usenet."

see also comp.infosystems.wais

How may I contribute to the Elmers List?
+++

By using this resource, you are benefitting the net by obtaining
assistance in the fastest and most efficient way possible. By
volunteering to appear on this list, you are contributing to the good
reputation of the radio-related newsgroups.

Thanks to all the volunteer Elmers, as well as courteous list users, for
making this service a success.

--
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)
elmers-request@unomaha.edu (Elmers List administrivia)

* Possible origins of the word HAM:

The acronym "Home Amateur Mechanic" or...

from the Cockney pronunciation of "L'amateur" or...

the initials of the founder of the American Radio Relay League, Hiram
Maxim, W1AW (his actual middle name being Percy apparently
notwithstanding) or...

from the call letters of one of the first amateur stations at Harvard,
H.A.M. (please, no flames from W1XM at MIT)

Dale Mosby, N7PEX, offers the explanation that HAM must stand for "Hardly
Any Money," considering the investment one could make in the hobby.

Knowledgeable individuals from the American Radio Relay League (ARRL),
and other radio historians, seem to agree that the terms "Ham" and "Lid"
(an inept operator) both originated with landline telegraphy. A "Ham"
was a show-off and a "Lid" was a telegraph operator so inexperienced, he
had to use a pot or can lid to rest his telegraph sounder on to properly
copy the code.

As an interesting historical footnote, early telegraph operators may
have been the first to experience the infamous curse of our
communications age, Repetitive Stress (or "Carpal Tunnel") Syndrome
(called "Glass Arm" in those days, which encouraged the invention of the
semi-automatic or "bug" key).

(Larry E. McDonald, N6ZMB, wrote to point out another plausible origin,
which doesn't necessarily contradict the ARRL version. The term "ham"
may have been derived from "ham-fisted" or "ham-handed" to describe poor
telegraph operators who were hired from the ranks of radio operators.
Or maybe "ham-fisted" and "ham-handed" are derived from "ham." Who

knows?)

Date: 31 Jan 94 17:58:51
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!
uwm.edu!msuinfo!netnews.upenn.edu!mipg.upenn.edu!yee@network.ucsd.edu
Subject: Code tapes, looking for.
To: info-hams@ucsd.edu

One complaint about the ARRL code tapes. They are Farnsworth'ed a bit
on the slow side. As a result, I was (or perhaps am) counting the
didah's for the numbers.

--
Medical Image Processing Group | Conway Yee, N2JWQ
411 Blockley Hall | EMAIL : yee@mipg.upenn.edu
418 Service Drive | VOICE : 1 (215) 662-6780
Philadelphia, PA 19104-6021 (USA) | FAX   : 1 (215) 898-9145

Date: 31 Jan 1994 22:50:52 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!cs.utexas.edu!swrinde!
elroy.jpl.nasa.gov!news.aero.org!Aero.org!obrien@network.ucsd.edu
Subject: More info: the DSP nobody mentioned
To: info-hams@ucsd.edu

In article <milewski-310194132314@fp2-st-affairs-11.uoregon.edu>,
milewski@oregon.uoregon.edu (Steve Milewski) writes:
|> Last week I described a DSP filter that several hams in the Eugene, OR area
|> are now using. I also posted a short description about the filter which
|> AI7W composed after we received several inquiries about the unit.
|>
|> This morning I received the following message which might get your interest
|> piqued a bit more:
|> --
|> After reading your description of Steve's filter, I went out to his place
|> yesterday for a live demo. It's amazing! Why aren't these folks
|> advertising in the ham mags? The filter plus program are less than the
|> other popular DSPs I see.
|>
|> Of course, it does have a couple disadvantages: you need a computer with
|> considerable horsepower, and maybe VGA color monitor; and the filter and
|> its control program are so interesting that I spent more time fiddling
|> with it than I did listening!
|>

```
|> 73
|> W7KPZ
|> ----------------------------------------------------------------------------
|>
|> I have no affiliation with the company that makes this filter. I'm just
|> amazed at what this unit does and how it does it. Steve gave this contact
|> info:
|>
|> The address and phone for Digital Interactive Signal Corp. is
|>
|> Digital Interactive
|> 2317 N.E. 168th Ave.
|> Vancouver, WA.  98684
|>
|> 206-256-8654
|>
```

I'll second the recommendation - this is the ONLY DSP filter that lets YOU
design the filter, on the fly. It's major fun to play with, if nothing
else!

I should mention one thing, though - in the time domain, this filter simply
doesn't exist. There's no automatic notch, for example. You can see the
whistle on the spectral display, and draw a notch filter to zap it, but
the box itself won't analyze the incoming signal at all, beyond displaying it.

What this means is that the white-noise reduction functions found in other DSP
boxes are flat-out missing. There is no time-domain correlation at all.
But if you want to create the world's greatest SSB filter, tuned exactly
to your ear, at the swipe of a mouse, then this is the box for you.
--
Mike O'Brien
obrien@aero.org

Date: Tue, 1 Feb 1994 17:11:14 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test
To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 17:12:14 GMT

From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test
To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 17:30:47 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test
To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 17:32:26 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test
To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 17:46:58 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test
To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 17:50:41 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-feed.umr.edu!crunch.nuc.umr.edu!
sidener@network.ucsd.edu
Subject: test

To: info-hams@ucsd.edu

Date: Tue, 1 Feb 1994 14:36:50 GMT
From: munnari.oz.au!spool.mu.edu!olivea!news.bu.edu!att-in!cbnewse!
parnass@network.ucsd.edu
To: info-hams@ucsd.edu

References <hatunenCKI4Mx.4HD@netcom.com>, <tweekCKI8FK.5xr@netcom.com>,
<CKIGvt.4zw@cup.hp.com>ss
Subject : Re: FCC Database Online For Calif.

jholly@cup.hp.com (Jim Hollenback) said:

  > of all the things to listen to on a scanner, I still am trying
  > to figure out why some one would want to listen to "that's a
  > big Mac, ...". Watching paint dry must really make some people
  > wet thier [sic] pants.

"... don't criticize what you can't understand." - Bob Dylan
--
==
                      Copyright 1994, Bob Parnass, AJ9S
          AT&T Bell Laboratories - parnass@ih4gp.att.com - (708)979-5414

End of Info-Hams Digest V94 #102
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